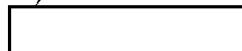
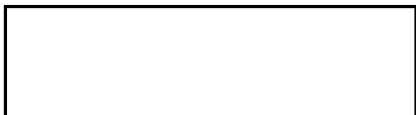


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5 October 1965

MEMORANDUM FOR: Deputy Director for Intelligence

SUBJECT : Photo-Satellite Reconnaissance 1965

1. This memorandum, with attachments, summarizes the performance during 1965 of U.S. photo-reconnaissance satellites against the more than 4,000 COMOR targets which require coverage of varying percentages and periodicity

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Conclusions:

2. It is concluded that the KH-4 system has performed satisfactorily in meeting its requirements.

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3. Background:

a. USIB-Approved "Requirements for Present Image-Forming Sensors". This "requirements" paper was approved by USIB last March. We believe it useful to stress some of its main points again. As you will recall, USIB said in that document:

(1) "This statement of requirements including targets and frequency of coverage in Tab A ... is specifically designed to provide general guidance to the NRO in the operation of the KH-4 for the next two years or so."

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(2) "It is emphasized that Tab A is an estimate of the number and type of targets and the frequency of coverage required and is subject to change in the light of shifting world situations or other factors that may bear on our current intelligence needs such as the results of previous reconnaissance missions and the receipt of collateral information. Accordingly, Tab A will be supplemented on a mission-to-mission basis with specific guidance which reflects changes in our intelligence needs. To assure effective management, including frequency of launch, each mission will therefore be targeted on the basis of a continuing review of the intelligence needs."

(3) "The surveillance-technical target requirements for KH-4  photo reconnaissance set forth in ... /Tab A/ ... are based on our current knowledge and foreseeable needs during the next two-or three-year period. The list is subject to constant revision, particularly in the number of targets."

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(4) "Our surveillance requirements of today (see Tab A) can be satisfied to an important extent by KH-4 

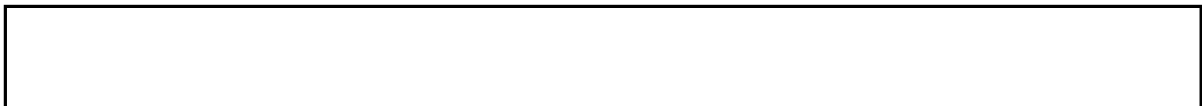


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(5) "... about 90 percent of the surveillance requirements ... for KH-4 can be met with ... ten successful missions."

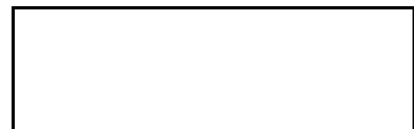
(6) "... a reasonable effort for KH-4 is about ten successful missions, approximately evenly spaced throughout the year for the KH-4 search and ... surveillance tasks."



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b. Summary of Operations, 1 January - 30 September 1965

The tables below summarize the KEYHOLE missions which were attempted through 30 September this year in response to the foregoing USIB guidance:

(1) KH-4

<u>Mission No.</u>	<u>Month</u>	<u>Success(s)</u>	<u>Partial(P)</u>	<u>Failure(F)</u>
1016	Jan	S		
1017	Feb	S		
1018	Mar	S		
1019	Apr		P	
1021	May	S		
1020	Jun		P	
1022	Jul	S		
1023	Aug	S		
1024	Sep	S		
	<u>SCORE</u>	<u>7</u>	<u>2</u>	<u>0</u>

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## US Photo-Satellite Operational Performance — 1965

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Total	SCORE		
KH-4										9	7	2	0

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Success

Partial

Failure

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4. Review of KEYHOLE Performance Against USIB Target Objective.

a. Introduction. We have prepared some graphic tables (attached at Tab A) which relate 1965 KEYHOLE performance to USIB objectives for target coverage (within the context of para 3.a. above). They are intended to:

(1) Show the present status of KH-4 [ ] accomplishments against community objectives for coverage of major categories of Sino-Soviet Bloc targets, i.e., where we stand today,

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(2) Contrast the above status with maximum achievements of KH-4 [ ] against various target categories during any coverage period, i.e., best performance this year compared to where we stand at the moment.

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Data for all KH-4 launches attempted from January through July were used in constructing the tables regarding that vehicle. The achievements of KH-4 Mission No. 1021 were included in these calculations even though it was designed primarily for mapping and charting purposes; it obtained a fair volume of coverage of Sino-Soviet Bloc intelligence targets. However, the results from KH-4 Mission No. 1023, flown in August, have not been included because the mission index was completed only this week but not soon enough to be incorporated in the tables.

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b. Contents of Tables

[ ] These tables describe the types and numbers of all COMOR targets by categories which are equivalent essentially to intelligence problems regarding Sino-Soviet activities in the following areas: missiles, aviation, nuclear, naval, BW/CW, electronics/communications and ground forces. These tables also describe our objectives for coverage of targets by vehicle in each of those categories

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[REDACTED] [REDACTED]

in terms of percent, numbers of targets and periodicity. COMOR calls these objectives: "Current COMOR Coverage Requirements" (CCCR) and has agreed that there are certain caveats on the use of such "requirements" or objectives. The COMOR caveats are quoted below:

"a. The percentage required at the various frequencies means that the same targets in a category could be covered repetitively to meet the requirement. Also in some instances specific objectives will require repetitive coverage. These will be identified on a mission-by-mission basis through the assignment of an appropriate COMOR priority.

b. In some cases it is preferable but not mandatory that all the targets in a category should be covered. These are indicated in the "Remarks" column by "100% desirable" followed by the frequency of coverage desired. /Not indicated on the attached tables/

c. Until the CCCR paper is revised, the categories are fixed and the percentages are fixed. They constitute planning guidance and a base line against which performance may be checked periodically. However,

d. The number of targets will change as new targets appear; as targets cease to exist; or as a target changes in status, e.g., from suspect to operational."

The bottom half of these tables depicts the current status of accomplishment and the best performance this year against the target objectives in each category for each collection system. In reading this portion of the tables, it should be kept in mind that the percentage of accomplishments are related to the coverage objectives and not the total number of objectives which are set out near the top of the tables.

No credit has been given in these tables for over-fulfillment of stated objectives.

c. Comments on Selected Elements of the Tables

(1) KH-4

(a) Missiles

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The current level of accomplishment of objectives is very high, overall. The short-fall against suspect missiles areas and suspect ICBM sites at existing complexes (first and second columns) is not considered to be a matter of critical concern. Complete coverage of two of the former group of targets was obtained in June-July; partial coverage of two others in July. All of that group have received partial or complete coverage sometime this year. Both of the suspect ICBM sites targets have been covered at least once since March by KH-4

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(b) Nuclear

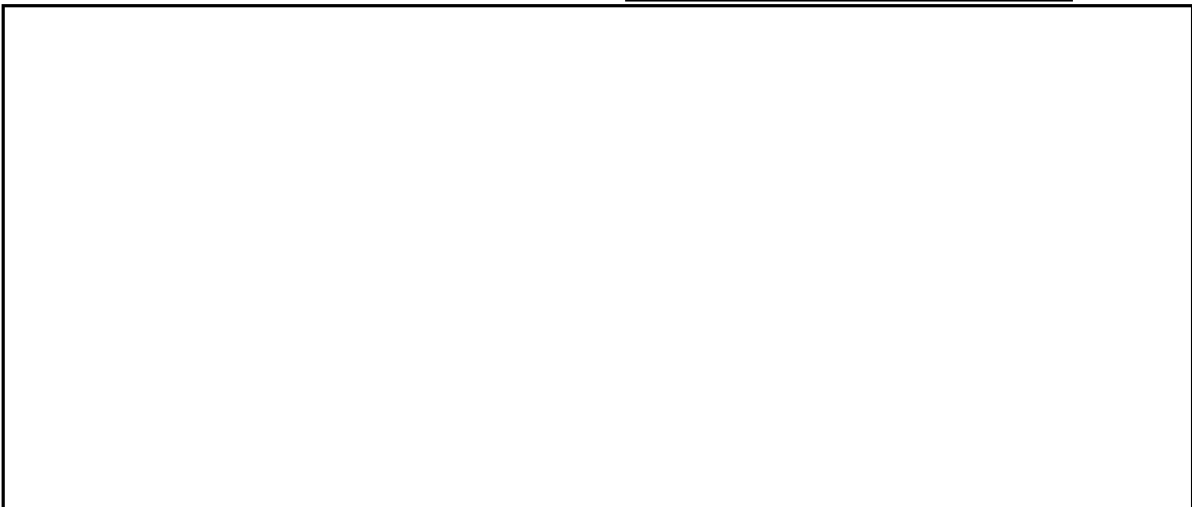
The current level of accomplishment against nuclear test site objectives is 20 percent. Six targets are involved: three areas at Semipalatinsk; two at Novaya Zemlya and one at Lop Nor. KH-4 has covered Lop Nor completely, five times this year, partially four times

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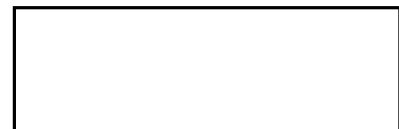
The three Semipalatinsk test areas have not been covered completely since March; partial coverage was obtained by KH-4 in May and June. Clouds are a traditional impediment to photo coverage of Semipalatinsk.

Novaya Zemlya has received partial KH-4 coverage on three occasions this year

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# SUMMARY OF KH-4 PERFORMANCE AGAINST USIB OBJECTIVES 1 JANUARY - 31 JULY 1965

## MISSILES

R&D/  
PRODUCTION

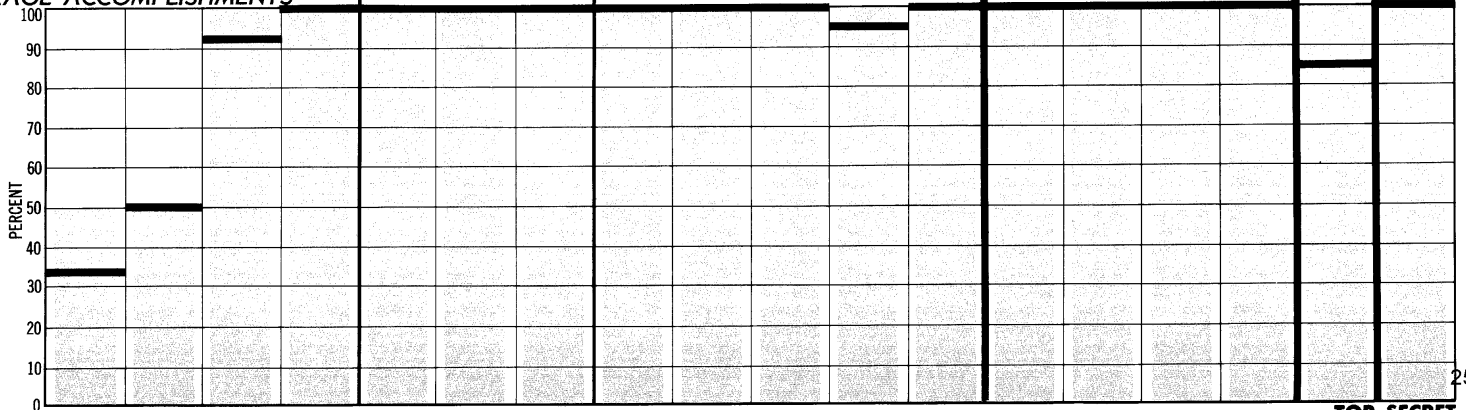
### DEPLOYMENT

### TEST RANGES

### STORAGE

TARGETS	SUSPECT OR UNIDENTIFIED AREAS AND SITES				SITES UNDER CONSTRUCTION OR MODIFICATION			OPERATIONAL					COMPLEXES					
TYPE	Missile	ICBM	Fixed Field	AMM/Long-Range SAM	ICBM	IR/MRBM	AMM/SAM	ICBM	IR/MRBM	SA-2	SA-3	SAM Training	ICBM	IR/MRBM	AMM/SAM	Other		
NUMBERS	6	2	81	5	75	7	5	100	184	1235	117	4	12	7	3	5	26	8
PERCENTAGE	100	100	90	50	80	50	80	50	50	30	50	50	80	80	80	50	50	50
NUMBERS	6	2	73	3	60	4	4	50	92	371	59	2	10	6	3	3	13	4
PERIODICITY	Bi-Monthly	Bi-Monthly	Semi-Annually	Quarterly	Quarterly	Quarterly	Bi-Monthly	Semi-Annually	Semi-Annually	Quarterly	Quarterly	Quarterly	Bi-Monthly	Bi-Monthly	Bi-Monthly	Quarterly	Quarterly	Semi-Annually

### COVERAGE ACCOMPLISHMENTS



Best Performance 1965 (any coverage period)

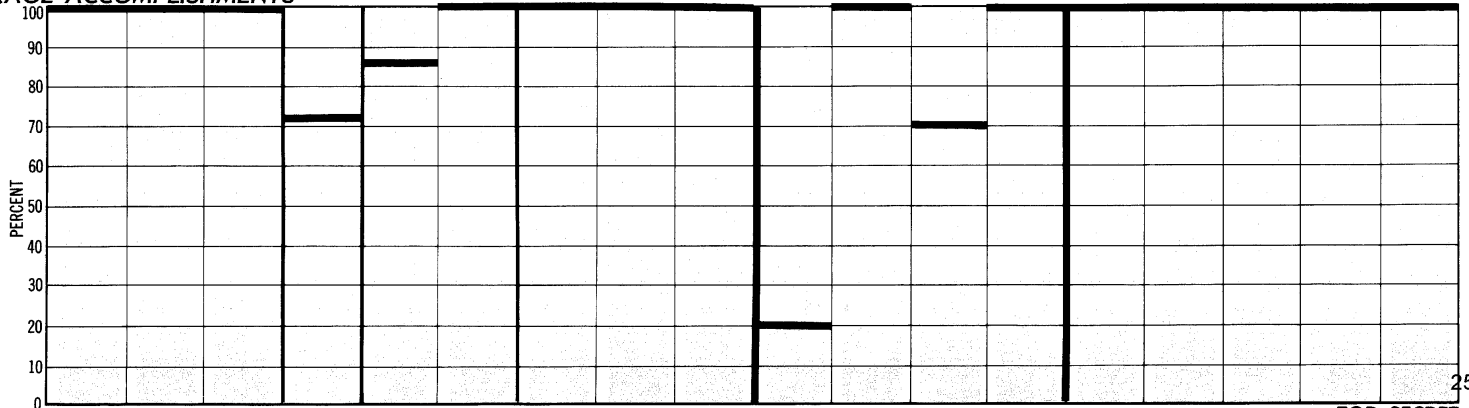
Status as of 30 September 1965 (any coverage period)

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# **SUMMARY OF KH-4 PERFORMANCE AGAINST USIB OBJECTIVES** 1 JANUARY - 31 JULY 1965

TARGETS	AVIATION									NUCLEAR				NAVAL				
	LONG RANGE BASES			TACTICAL STRIKE BASES	FIGHTER BASES, CONTROL		AIR-TRANSPORT BASES	REMAINING AIRFIELDS	R&D/ PRODUCTION	TEST	INSTITUTES	PRODUCTION	STORAGE	SUBMARINE DEPLOYMENT BASES	SURFACE SHIP BASES	LOGISTIC SUPPORT BASES	SHIPYARDS MISSILE/ NUCLEAR	REMAINING MAJOR SHIPYARDS
	Primary	Naval	Staging		USSR/ EUSATS	China/ No. Korea												
NUMBERS	31	16	4	144	218	101	35	79	21	6	15	19	32	31	6	9	5	7
PERCENTAGE	50	50	100	50	50	50	50	50	50	80	50	50	50	80	50	50	100	100
NUMBERS	16	8	4	72	109	51	18	40	11	5	8	10	16	25	3	5	5	7
PERIODICITY	Bi-Monthly	Bi-Monthly	Annually	Quarterly	Quarterly	Semi-Annually	Annually	Annually	Quarterly	Bi-Monthly	Annually	Quarterly	Semi-Annually	Quarterly	Semi-Annually	Quarterly	Semi-Annually	Annually

## COVERAGE ACCOMPLISHMENTS



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Best Performance 1965 (any coverage period)

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**SUMMARY OF KH-4 PERFORMANCE AGAINST USIB OBJECTIVES**  
1 JANUARY - 31 JULY 1965

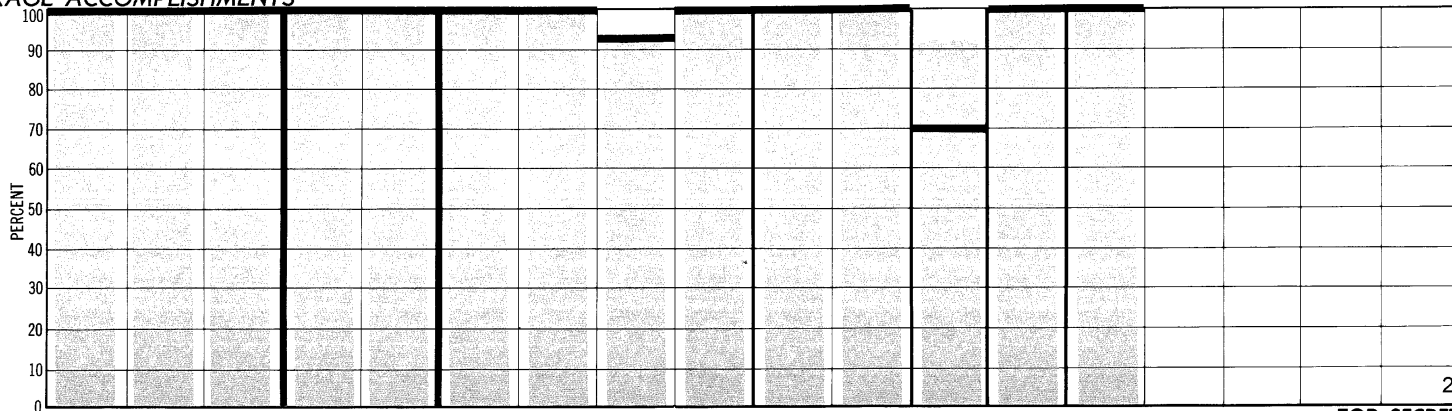
BW/CW

ELECTRONICS/  
COMMUNICATIONS

GROUND FORCES

TARGETS	MAJOR INSTALLATIONS			MAJOR INSTALLATIONS		MAJOR INSTALLATIONS				MAJOR DEPOTS		MAJOR MANEUVER AREAS	OTHER	ARMAMENT PRODUCTION			
	Proving Grounds	Production/Storage	Other	Under Construction	Other	Western USSR & EUSATS	Remainder USSR	South China	Remainder So. China & No. Korea	USSR/EUSATS	China/No. Korea	USSR/EUSATS	Remainder of Installations	Ground/Naval			
NUMBERS	4	4	87	7	167	601	303	68	47	57	29	47	57	11			
COVERAGE OBJECTIVES																	
PERCENTAGE	50	50	10	80	50	50	75	100	75	50	50	80	90	50			
NUMBERS	2	2	9	6	84	301	228	68	36	29	15	38	52	6			
PERIODICITY	Quarterly	Semi-Annually	Annually	Quarterly	Annually	Annually	Annually	Annually	Annually	Annually	Annually	Semi-Annually	Annually	Annually			

**COVERAGE ACCOMPLISHMENTS**



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Best Performance 1965 (any coverage period)

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